

CORRELATION OF MAP UNITS

SURFICIAL DEPOSITS

Deposits
related
to named
moraines:

Geological Cross-Section Diagram

The diagram illustrates the stratigraphy of the Yukon River area, showing the distribution of various glacial and fluvial deposits across geological time.

Legend:

- Morainal deposits:** pml, pmg, pmb
- Kame and kame-terrace deposits:** pk, pkh, pkt, pkc, pc, kc, kch
- Glacioalluvial deposits:** fcl
- Glaciolacustrine and related deposits:** fkt, fk, rk, rkh, lk, sk, gk, fkc, rc, lkc, lc, skc, sc, gc, mc, oc
- Glacioestuarine and estuarine deposits:** fo, rkf, ro, rkg, rgl, lkf, so, skf, sgd, sgl, go, gkf, mkf
- Alluvial deposits:** il, ipw, iu, ip, io, iod, ib, al, at, alf, afo, af, aff, p, l, c, cl, ca, cg, cm, cw, cwf, cs, cl, cle
- Pond, bog, and lake deposits:** ath
- Colluvial deposits:** rdo
- Rock-glacier deposits:** f
- Anthro-pogenic deposits:** b

Time Scale:

- Holocene:** f
- QUATERNARY:** rdo
- Pleistocene:** fcl, ipw, ip, io, iod, ib, al, at, alf, afo, af, aff, p, l, c, cl, ca, cg, cm, cw, cwf, cs, cl, cle, rkf, rkg, rgl, lkf, so, skf, sgd, sgl, go, gkf, mkf
- TERTIARY TO PERMIAN:** b

EXPLANATION

[Description of map units is given in text]

MORAINE DEPOSITS

fme	End-moraine deposits of the:
rme	Fort Richardson moraines (late Pleistocene)
lme	Rabbit Creek moraines (late Pleistocene)
pml	Little Rabbit Creek moraines (Pleistocene)
fml	Lateral-moraine deposits of the:
rml	Potter Creek moraines (late Pleistocene)
lml	Fort Richardson moraines (late Pleistocene)
sml	Rabbit Creek moraines (late Pleistocene)
gml	Little Rabbit Creek moraines (Pleistocene)
mml	Ski Bowl moraines (Pleistocene)
pmg	Glen Alps moraines (Pleistocene)
pmb	Mount Magnificent moraines (Pleistocene)
fmf	Ground-moraine deposits of the:
fmb	Potter Creek moraines (late Pleistocene)
fmm	Deposits that thinly mantle bedrock
rmf	Fort Richardson moraines (late Pleistocene)
rmb	Deposits that thinly mantle bedrock
lmg	Deposits modified by glacioestuarine water
lmb	Rabbit Creek moraines (late Pleistocene)
smg	Deposits that thinly mantle bedrock
smb	Little Rabbit Creek moraines (Pleistocene)
gmg	Deposits that thinly mantle bedrock
gmb	Ski Bowl moraines (Pleistocene)
mmg	Deposits that thinly mantle bedrock
mmf	Glen Alps moraines (Pleistocene)
omb	Deposits that include mainly bedrock rubble
omg	Mount Magnificent moraine (Pleistocene)
omb	Deposits that include mainly bedrock rubble
omf	Older deposits (Pleistocene)
omb	Deposits that include bedrock rubble

GLACIOALLUVIAL AND GLACIOLACUSTRINE DEPOSITS

GLACIOEOLUVIAL AND GLACIOLACUSTRIAL

Kame deposits of the:

- pk Potter Creek moraines (late Pleistocene)
- pkh Deposits that exhibit high relief
- fk Fort Richardson moraines (late Pleistocene)
- rk Rabbit Creek moraines (late Pleistocene)
- rkh Deposits that exhibit high relief
- lk Little Rabbit Creek moraines (Pleistocene)
- sk Ski Bowl moraines (Pleistocene)
- gk Glen Alps moraines (Pleistocene)

Kame-terrace deposits (late Pleistocene) of the:

- pkt Potter Creek moraines
- fkt Fort Richardson moraines

Kame-channel deposits of the:

- pkc Potter Creek moraines (late Pleistocene)
- fkc Fort Richardson moraines (late Pleistocene)
- rkc Rabbit Creek moraines (late Pleistocene)
- lkc Little Rabbit Creek moraines (Pleistocene)
- skc Ski Bowl moraines (Pleistocene)

Meltwater-channel deposits:

- Channel deposits near Klatt Road (late Pleistocene)
- Deposits in channels cut below the level of the higher deposits
- Deposits at higher level
- Channel deposits of the Potter Creek moraines (late Pleistocene)
- Channel deposits of the Fort Richardson moraines (late Pleistocene)
- Lower-level deposits
- Channel deposits of the Rabbit Creek moraines (late Pleistocene)
- Channel deposits of the Little Rabbit Creek moraines (Pleistocene)
- Channel deposits of the Ski Bowl moraines (Pleistocene)
- Channel deposits of the Glen Alps moraines (Pleistocene)
- Channel deposits of the Mount Magnificent moraine (Pleistocene)
- Older channel deposits (Pleistocene)

Outwash-train deposits related to the:

- Fort Richardson moraines (late Pleistocene)
- Rabbit Creek moraines (late Pleistocene)
- Little Rabbit Creek moraines (Pleistocene)
- Ski Bowl moraines (Pleistocene)
- Glen Alps moraines (Pleistocene)

Kame-fan deposits related to the:

- Potter Creek moraines (late Pleistocene)
- Fort Richardson moraines (late Pleistocene)
- Rabbit Creek moraines (late Pleistocene)
- Little Rabbit Creek moraines (Pleistocene)
- Ski Bowl moraines (Pleistocene)
- Glen Alps moraines (Pleistocene)
- Mount Magnificent moraine (Pleistocene)

Glacial-lake delta deposits related to the:

- Rabbit Creek moraines (late Pleistocene)
- Ski Bowl moraines (Pleistocene)

Glaciolacustrine deposits related to the:

- Rabbit Creek moraines (late Pleistocene)
- Ski Bowl moraines (Pleistocene)

GLACIOESTUARINE AND ESTUARINE DEPOSITS

- Glacioestuarine deposits (late Pleistocene)
 - Glacioestuarine shore deposits
 - Delta deposits
 - Deposits near Abbott Road
 - Deposits near Huffman Road
 - Lower-level deposits
 - Deposits near DeArmoun Road
 - Deposits near Birch Road
- Modern intertidal deposits (latest Holocene)
 - Deposits of the lower intertidal zone
 - Deposits of the upper intertidal zone
- Deposits of Potter Marsh (late Holocene)
 - Deposits in wetter areas
- Older intertidal deposits (Holocene)
 - Delta deposits
- Deposits of the former modern beach (late Holocene)

- ALLUVIAL DEPOSITS**
 - Alluvial deposits along modern streams and in lowest terraces (Holocene)
 - Fine-grained deposits along some minor streams (Holocene)
 - Alluvial deposits in terraces (Holocene)
 - Deposits in higher terraces (Holocene and late Pleistocene)
 - Alluvial-fan deposits (Holocene)
 - Coarse-grained deposits
 - Fine-grained deposits
 - Older alluvial-fan deposits (Holocene and Pleistocene)
- POND, BOG, AND LAKE DEPOSITS**
 - Pond and bog deposits (Holocene and late Pleistocene)
 - Deposits of a possible low-level lake along South Fork Cowl Creek (???)

POND, BOG, AND LAKE DEPOSITS

Pond and bog deposits (Holocene and late Pleistocene)
Deposits of a possible low-level lake along South Fork Campbell Creek valley (Holocene)

- COLLUVIAL DEPOSITS (HOLOCENE AND PLEISTOCENE)**
- Colluvial deposits on mountain slopes
- Talus deposits
- Colluvial and alluvial deposits
- Mixed colluvial and glacial deposits
- Colluvial deposits derived mainly from moraines
- Colluvial deposits on walls of stream bluffs
 - Fine-grained deposits
 - Solifluction deposits
 - Landslide deposits
 - Deposits resulting from earthflows

ROCK-GLACIER DEPOSITS (PLEISTOCENE)

ANTHROPOGENIC DEPOSITS (LATEST HOLOCENE)

Engineered fill

BEDROCK (TERTIARY TO PERMIAN)

OTHER SYMBOLS

Contact--Well located, approximate, inferred, or indefinite

Escarpment--Indicates selected relatively prominent differences in level between adjacent deposits; ticks on side of lower deposits

Sackung trench--Approximate alignment; only principal trenches shown

Underlined map-unit symbol--Indicates areas extensively modified by rock blasting or by earthmoving equipment

Radiocarbon locality--Site of radiocarbon-dated sample listed in table 2